

River/Stream Reach

NFK/A

NFK/B

NFK/C

NFK/Trib 1.19

Discharge in all NFK reaches altered more than 20% at EOM.

SFK/A

SFK/B

SFK/C* No change shown for February, March and April

SFK/D

SFK/E

SFK/Trib 1.19

SFK/Trib 1.24

Major changes in SFK reaches D, E and Tributary 1.24. If these reductions are due to loss of GW inputs, how will GW signatures be affected? Reach D goes from -42 prior to treated water discharge to +110 with discharge. 150% of the discharge is treated water. That might confuse returning salmonids.

UTC/A

UTC/B

UTC/C

UTC/D

UTC/E

UTC/F

UTC/Trib 1.19

No major flow changes to UTC from mining phase 1. Increasing treated water discharges to UTC could reduce changes in NFK and SFK.

No estimates of flow changes under expanded development scdenario.

Greatest Percent Change in Monthly Mean Discharge at End of Mine (EOM) under Scenario 0 with Treated Water Discharge	Greatest Percent Change in Monthly Mean Discharge at Post Closure (PC) under Scenario 0 with Treated Water Discharge	Greatest Percent Change in mean monthly discharge at end of mine without treated water discharge	Greatest percent change in mean monthly discharge post closure without treated water discharge
+23% Apr; -12 Jun	+10% Apr; -6% Oct	-31% Apr	-11.6% Mar
+28% Apr; -13% Jun	+13% Apr; -6% Oct	-33% Mar	-12.5% Mar
+105% Apr; -20% Jun	+45% Apr; -8% Oct	-100% Apr	-45% Apr
-100% (stream eliminated)	-100% (stream eliminated)	-100%	-100%
-2.8% Jan, Feb, Jul	+5.8% Apr; -0.5% Jul	-11.9% Apr	-10.8% Apr
+1.3% Apr; -3.2% Jul	+6% Apr; -0.6% Jul	-9.3% Apr	-8.2% Apr
+3.8% Jan; -4.5% Jul, Sep	+125% Jan	-80% Jan	-78% Jan
+110% Apr; -12% Jun	+65% Apr	-42% Apr	-32% Apr
-52% Apr; -40% annual average	-40% Mar; -30% annual average	-53% Mar	-40.5% Mar
-18% Apr	-18% Apr	-18% Apr	-18% Apr
+98% Feb	+8.2% Feb	+98% Feb	+18.5% Feb
+0.76 Apr; -0.18 Jul	+0.61 Mar; -0.02 Jun	-0.85% Mar	-0.39% Mar
+0.7% Apr; -0.18 Jul	+0.55 Mar; -0.02 Jun	-0.78% Mar	-0.33% Mar
+0.9 Apr; -0.21 Jul	+0.77 Mar; -0.02 Jun	-1.02% Feb	-0.42% Apr
+1.65% Apr; -0.3% Jul	+0.88 Mar; -0.16 Apr	-1.32% Mar	-0.4% Mar
+3.2% Apr; -0.4% Jul	+1.6% Mar; -0.3% Apr	-2.48% Mar	-0.66% Mar
+12.6% Apr	+4.2% Mar; -0.8 Apr	'-6.6% Mar	-1.75% Mar & Apr
+0.15% Feb	+0.8% Feb	-0.85% Mar & Apr	-0.75% Apr



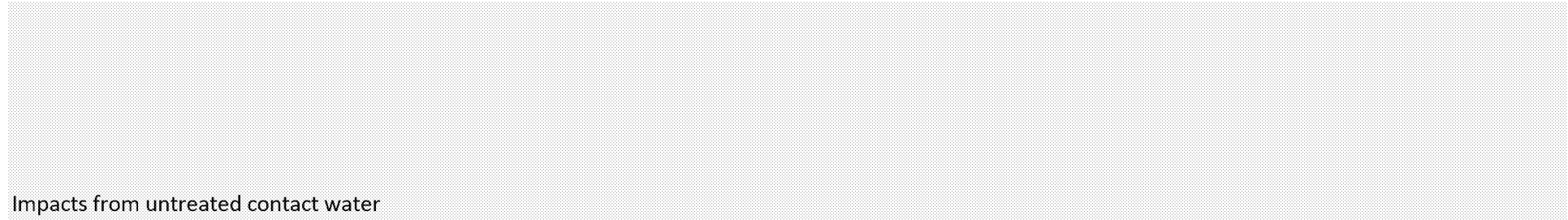
Impacts from modeled bulk tailings release

Exceed WQS for copper, molybdenum, zinc, lead, manganese, and cadmium

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Stream eliminated



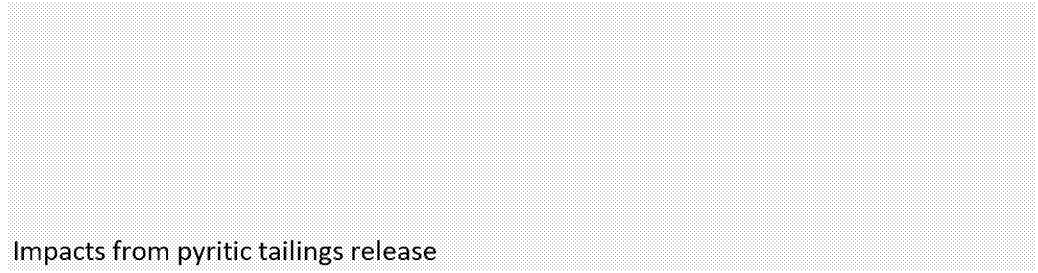
Impacts from untreated contact water

Elevated metals at or below June flows (375 cfs). June flows are the annual peak suggesting elevated metals in all NFK reaches under all flows.

Elevated metals under all flows

Elevated metals under all flows

Stream eliminated



Impacts from pyritic tailings release

Exceed WQS for copper, zinc, lead, manganese, cadmium and molybdenum.
Exceed WQS for copper, zinc, lead, manganese, cadmium and molybdenum.
Exceed WQS for copper, zinc, lead, manganese, cadmium and molybdenum.
Exceed WQS for copper, zinc, lead, manganese, cadmium and molybdenum.
Exceed WQS for copper, zinc, lead, manganese, cadmium and molybdenum.